

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-222037

(43)Date of publication of application : 17.08.2001

(51)Int.Cl.

G02F 1/365

(21)Application number : 2000-034454

(71)Applicant : FUJITSU LTD

(22)Date of filing : 14.02.2000

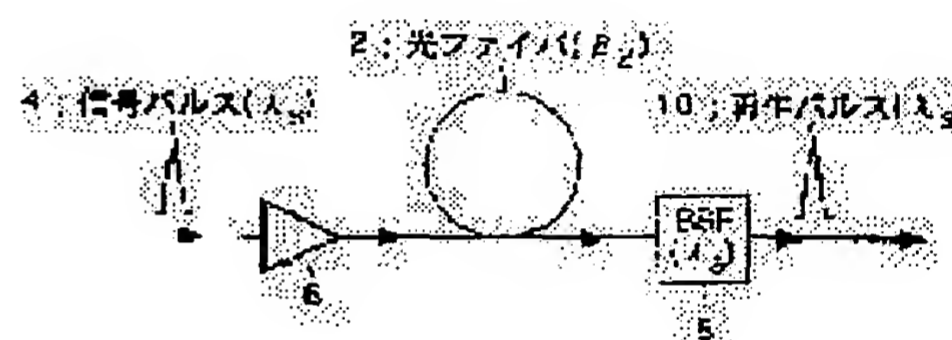
(72)Inventor : WATANABE SHIGEKI

## (54) METHOD, DEVICE AND SYSTEM FOR REPRODUCING OPTICAL SIGNAL

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a reproducing method of optical signal which does not depend on the bit rate and the pulse shape or the like of optical signal or a reproducing method of optical signal which is suitable for a WDM(wavelength dividing and multiplexing) as to method, device and system for reproducing optical signal.

**SOLUTION:** In this method for reproducing optical signal, when an optical signal is inputted to an optical waveguide structure (for example, an optical fiber) providing a nonlinear effect, a chirping is generated in the optical signal by the nonlinear effect. Then, components in which the chirping is small are eliminated by supplying the output optical signal outputted from the optical waveguide structure to an optical filter. When components in which the chirping is small are eliminated in the pulse shaped optical signal, since especially intensity fluctuation and accumulative noise of the top parts and/or low-power parts of the pulses can be eliminated, the optical signal can be reproduced without depending on the bit rate and the pulse shape or the like of the optical signal.



## LEGAL STATUS

[Date of request for examination] 12.07.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's]

decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office